entone

Universal Remote Control URC 4

User's Guide (North America Edition)

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Declaration of Conformity

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Chapter

1.1 Introduction

The Entone Universal Remote Control v4.x (URC 4) is designed to work either on Radio Signals (RF) or InfraRed (IR). It can control Janus Media Hub using RF from another room where is not at direct sight distance from the Janus. Or, it can use IR to control Amulet High Definition IP Television Receiver at direct sight distance. The URC 4 can also be used to control other A/V devices such as TV, DVD player and audio equipment using IR. There are two types of Entone URC 4: IR only (IR URC) and IR+RF (RF URC). IR URC is included in the package of Janus/Amulet while RF URC is included in Entone Second Stream Kit.

Loading Batteries

The URC 4 comes with AA-size batteries, which need to be installed when you first receive your system. When you replace old batteries, you should replace all of the batteries. Use batteries of the same kind, for example alkaline or carbon zinc, and do not mix batteries of different kinds. Alkaline batteries last longer than carbon zinc.

Warning: Mixing old and new batteries or different types of batteries poses a fire hazard.

To load batteries to URC 4:

- 1. Press down on the battery cover's top latch and slide the cover off.
- 2. If you are changing out batteries, take out all of the old batteries.
- 3. Put the new batteries in. Make sure you match the plus ("+") ends with the plus markings on the battery case
- 4. Slide the cover back into place.

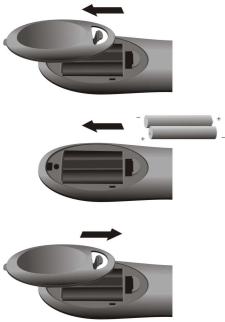


Figure 1-1 Loading Batteries to URC 4

Chapter 2

2.1 Controlling STB using RF URC

Janus is a multi-television media hub. It can support multiple outputs in multiple rooms viewing different channels or TV programs. Amulet is a single output video receiver. You can connect Amulet to a primary output only.

You can use RF URC 4 to control Janus/Amulet using radio signals (RF). These radio signals travel over long distances and go though walls and other solid objects. You must connect the Remote Antenna Package (RAP) to the rear panel of the Janus/Amulet.

Your Janus/Amulet comes with one IR URC 4 to be used for output 1 (primary). (Additional RF URC 4 can be purchased separately.) Your RF URC 4 must be registered to one of the 2 outputs (primary or secondary) before it can be used. One RF URC 4 can only be registered to one output. However, you can register at most 3 RF URC 4 to an output. After registration, you need to use the corresponding RF URC 4 to control the outputs.

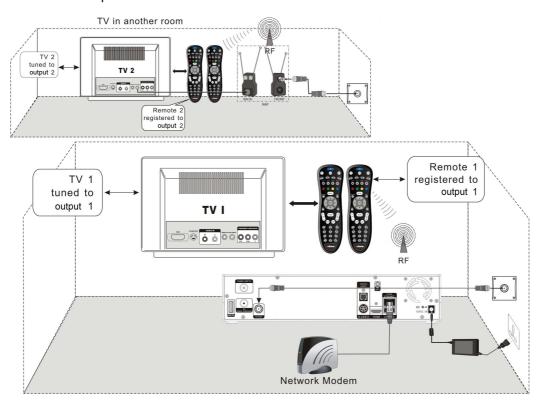


Figure 2-1 Controlling STB using RF URC 4

Here are some principles of the remote registration method:

- Each output allows a maximum of 3 RF URC 4 to be registered and a registration list is maintained. If the user has registered 3 RF URC 4 and tries to register another RF URC 4, the first registered RF URC 4 will be removed from the registration list. This works as a first-in-first-out fashion.
- Each RF URC 4 can only be registered for one output. If user tries to register a RF URC 4 which is already registered to another output, that remote registration will be removed from the original registration list.
- The registration list is maintained in order. If the secondly registered RF URC 4 is removed from the list, the third entry will move forth to the second and the third will be blank for a new RF URC 4 to be registered.

You must install the Remote Antenna Package (RAP) comes with Entone Second Stream Kit before doing the registration. Please refer to the following sections for installing the RAP.

RAP Installation (in remote room)

Please follow the following diagram to install the RAP. The RAP is used to enhance the URC radio frequency transmission using the TV coax cable network in your home.

- 1 Plug the RAP into the TV.
- 2 Connect the TV coax cable to the RAP and the TV coax network wall outlet.

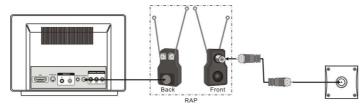


Figure 2-2 Attaching Remote Antenna Package

NOTE: Don't let the antenna touch anything.

ATTENTION: If your URC 4 isn't working very well from far away, you may be experiencing interference from objects near your receiver. To improve your URC 4's reception range, try to adjust the antenna orientation using screwdriver as shown. You may need to try different antenna orientation to achieve the best reception.



Figure 2-3 Adjusting Antenna Orientation

Connecting STB to the TV coax network

Connect the Entone STB to the TV coax network wall outlet according to whether you are using an Entone Janus or Amulet STB. The rear panel of actual product may vary.

1. Janus without Tuner Connection: Connect the Janus "MATV" or "TV OUT" output to the TV coax network as shown.



Figure 2-4 Connecting Janus without Tuner

2. Janus with Tuner Connection: Connect the Janus "MATV" or "TV OUT" and "RF IN" or "CABLE/ANT IN" output to the TV coax network as shown using a 3-way splitter (which is not provided).

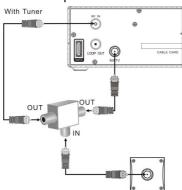


Figure 2-5 Connecting Janus with Tuner

3. Amulet F1 Connection: Connect the Amulet "REMOTE CONTROL" and "COAX" or "TV OUT" output to the TV coax network as shown using a 3-way splitter (which is not provided).

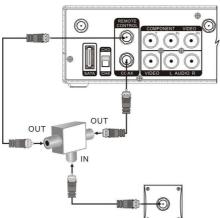


Figure 2-6 Connecting Amulet

RF URC Registration

You may need to register the RF URC to the STB before you can use the remote. The RF URC registration procedures may vary for different middleware and TV service running in the Entone STB. Please refer to the TV service user guide for detailed RF URC registration procedures.

Below lists the general RF URC registration procedures (NOTE: Refer to your TV service user guide for exact RF URC registration procedures):

1. Press and hold the "OK" button on the STB front panel for 5 seconds until the touch panel backlight is flashing. The STB is now in URC registration mode.



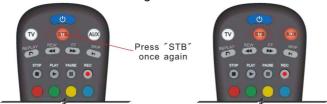
Figure 2-5 Janus in Remote Registration Mode

NOTE: If registration is not completed in 30 seconds, the touch panel backlight will stop flashing.

- 2. Press "STB" button once on the URC.
- 3. Press and hold the "STB" button on the URC for 5 seconds until the "STB" button backlight is on.



4. Press "STB" button once again. Both the "STB" and "AUX" button backlight will illuminate.



5. Press "1" or "2" to register the URC to output 1 (primary) or output 2 (secondary) (depending on the middleware).

Upon successful registration, the STB POWER indicator will flash once and the touch panel backlight will stop flashing.

NOTE:

- The POWER key can be configured to control both the STB and TV while the URC 4 is in "STB" mode, please refer to the section "Toggle Power Key Punch-through Functionality" in Chapter 4 for details.
 The Volume +/- and MUTE key can be configured to control both the STB and TV while the URC 4 is in
- The Volume +/- and MUTE key can be configured to control both the STB and TV while the URC 4 is in "STB" mode, please refer to the section "Toggle Volume Key Punch-through Functionality" in Chapter 4 for details.

Chapter 3

3.1 Controlling STB using IR URC

Unlike RF, you do not need to do remote registration in order to use URC 4 to control Janus/Amulet through IR. The remote comes with Janus/Amulet is IR URC 4. However, you have to program the RF URC 4 comes with Entone Second Stream Kit to use IR mode.

To set the RF URC 4 to use IR to control Janus/Amulet:

1. On the URC 4, press and hold the "STB" button for approx. 5 seconds. The "STB" button backlight will illuminate. Now the URC 4 is in registration mode.



2. On the URC 4, press "STB" once again. Both the "STB" and "AUX" button backlight will illuminate.



3. Press "0" to set RF URC 4 to IR mode only. The RF URC 4 will not send any RF signal.

The "STB" button backlight on the URC 4 will blink twice to indicate that the setting was successful.

Pressing a key other than "0", "1", "2", "3" or a button is not pressed within 30 seconds, the "STB" backlight will blink rapidly for 7 times to indicate an error and then extinguish, and the URC 4 registration process will be terminated.

IR Reception Range

IR signals travel only short distances (40 feet or less), and cannot go through walls or other solid objects. You must point the URC 4 to the STB, with no objects blocking the line of sight.

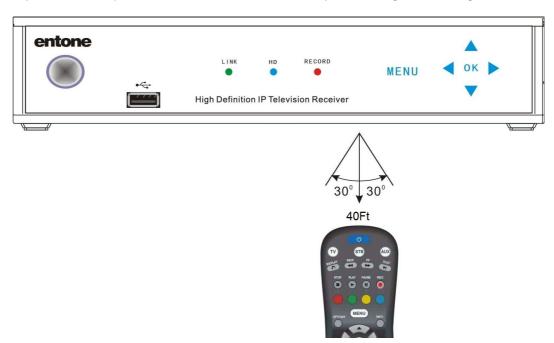


Figure 3-4 IR Reception Range

Chapter

4.1 Controlling Your Television and other A/V Devices

The URC 4 can also be used to control TVs and other AV devices such as DVD players and recorders. The URC 4 uses InfraRed (IR) light signals to control other devices that the remote is programmed to control. IR signals travel only short distances (40 feet or less), and cannot go through walls or other solid objects. You must point the URC 4 directly at these devices, with no objects blocking the line of sight.

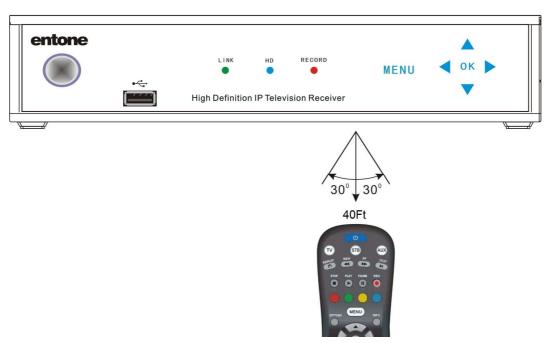


Figure 4-1 Controlling Devices using URC 4

You can program URC 4 to control one TV and one AUX device. Use the remote control's mode keys (i.e., "STB", "TV", or "AUX") to control a specific device. When pressed, the selected mode key will light up confirming your choice. Then you can use the URC 4 to control your STB, TV or AUX device.

You have to program the URC 4 what TV and AUX devices you are using by either 1) entering the 4-digit device code 2) doing an auto search.

NOTE:

- The POWER key can be configured to control both the STB and TV while the URC 4 is in "STB" mode, please refer to the section "Toggle Power Key Punch-through Functionality" in Chapter 4 for details.
- The Volume +/- and MUTE key can be configured to control both the STB and TV while the URC 4 is in "STB" mode, please refer to the section "Toggle Volume Key Punch-through Functionality" in Chapter 4 for details.

To Program a TV or AUX device

- 1. Locate the device code for your desired device in the device code table provided in the Appendix. If you could not find the device code for your device or it does not work after trying the listed device codes for your device brand, then you can go to the next section to try the auto search procedures.
- 2. Turn on your device and with media inserted (if applicable).
- 3. On the remote control, press a device mode key for 5 seconds (i.e., "TV" or "AUX"). The device mode key will light up.

NOTE: Use the "AUX" mode key to program control of VCR, DVD player, cable box, satellite set-top-box and audio device.

4. Enter the four-digit device code for you device. If you perform this procedure correctly, the selected device mode key backlight will blink twice.

NOTE: If you enter an invalid device code, the selected device mode key will fast blink 7 times. Device program mode will be terminated.

5. Aim the remote control at your device and press the "POWER" once. The device should be turned off. If it does not respond, repeat the above steps.

NOTE: In the programming mode if no key is received within 30s, the device mode key backlight will blink rapidly for 7 times to indicate an error and then extinguish, and the programming mode will end.

Toggle Power Key Punch-through Functionality

By default, if the remote control is in STB mode, the URC Power button switches STB off ONLY. To control the URC Power button functionality to switch off either both the TV and/or STB, do the following:

- 1. Press and hold the "STB mode key for 5s. The "STB" device mode key backlight will light up.
- 2. Press "POWER" key once.
- 3. Either do the following:
 - a. Press 1 to control both the STB and TV, OR
 - b. Press 0 to control the STB ONLY

NOTE: In the programming mode if no key is received within 30s, the device mode key backlight will blink rapidly for 7 times to indicate an error and then extinguish, and the programming mode will end.

Toggle Volume Key Punch-through Functionality

By default, Vol +/- and MUTE keys are sent to STB only when URC is in STB mode.

Punch-through function for those keys is enabled at the same time when programming the device code for TV or AUX. That is:

- 1. If user program device code for a TV device, the punch through function will be configured for TV at the same time
- 2. If user program device code for an AUX device, the punch through function will be configured for AUX at **the same time**.

To disable the Punch-through function for those keys, do the following:

- 1. Press and Hold STB for 5 seconds, then STB led will switch on.
- 2. Press STB key once again, then both STB and AUX led will switch on.
- 3. Press 0

Auto Search Procedures

If your device does not respond to the remote control after trying all devices codes listed for you brand, or if your brand is not listed at all, try searching for your device code as follows:

- 1. Turn on your TV or your A/V device.
- 2. On the remote control, press a device mode key (i.e., "TV" or "AUX") and hold for 5s. The device mode key will light up.

NOTE: Use the "AUX" mode key to program control of VCR, DVD player, cable box, satellite set-top-box and audio device.

- 3. Press the "POWER" key once.
- 4. Aim the remote control at the device. Press either the "CH UP" key or "CH DOWN" key to do device auto-scan:
 - a. Press the "CH UP" key to start searching upward at an approx. 5 seconds interval for each device code. The TV/AUX mode key will be on and blink every 5 seconds while in the device scan mode.

NOTE: In this search mode, the remote control will send IR codes from the library starting from the lowest code set number to the end of code set for that device; **OR**

b. Press the "CH DOWN" key to start searching downward at an approx. 5 seconds interval for each code set. The TV/AUX mode key will be on and blink every 5 seconds while in the device scan mode.

NOTE: In this search mode, the remote control will send IR codes from the highest code set number to the beginning of code set of that device.

- 5. If the device turns off, a working code has been found. Press OK once to lock in the code. The selected mode key will blink twice
- 6. If all code sets of that device is exhausted in the search and the OK is not pressed, the selected device key will fast blink 7 times and the search mode will be terminated.

NOTE: During the auto-scan, you can press "UP" arrow or "DOWN" arrow to advance to the next device code immediately without waiting for 5 seconds. You can also use "UP" arrow or "DOWN" arrow to change the direction of the search.

NOTE: In the programming mode if no key is received within 30s, the device mode key backlight will blink rapidly for 7 times to indicate an error and then extinguish, and the programming mode will end.

Appendix

Appendix A – Device Code

Your URC 4 can control many brands and models of television, VCR, DVD and other types of audio-visual equipment. The following pages list device codes for many categories and brands of equipment. Many brands list more than one code, and you may need to test several codes to find the best match for your equipment. Your equipment may be supported even if your brand is not shown in the list below. If you cannot locate your brand, or none of the listed device codes works, then you may still use the Auto-Search feature to try to locate a suitable device code. Instructions for using the Auto-Search feature are located on page 13 of this guide.

ΤV	_	ni	'n	ita	ı	т	V
	_	_	м	Ita			¥

ı v - Digitai	IV
Samsung	0163
Zenith	0165
TV - HD Plas	sma Display
RCA	0242, 0262
TV - HDTV	
Apex	0083
Daewoo	0267
Hitachi	0091
ILO	0094
JVC	0071
Mitsubishi	0111, 0238, 0013, 0147
Panasonic	0311, 0012
Philips	0192, 0303, 0000, 0244
Proscan	0138
RCA	0138, 0158, 0140, 0262
Sampo	0055
Sharp	0198
Sony	0236, 0035, 0043, 0231
Zenith	0103, 0105

TV - HDTV Monitor

Brillian	0184
Panasonic	0161
Philips	0217
RCA	0282
Sears	0184

TV - HDTV Projection Monitor

Panasonic	0215, 0299, 0310
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Pioneer	0010, 0058		
Zenith	0091		
TV - HDTV F	Projection TV		
Panasonic	0196		
Sony	0236		
TV - LCD HDTV			
Akai	0108		
ILO	0059		
Olevia	0142		
Polaroid	0212		
Syntax	0142		
Westinghous	0021		
е			
Zenith	0018		
TV - LCD Projection TV			
Epson	0247		
LG	0207		
Panasonic	0033		
Sony	0243, 0053, 0292		
TV - LCD TV			
Akai	0270		
AOC	0275		
Audiovox	0205, 0003, 0150		

0028

0306

0115 0134

0144

0109

0191 0271

0070, 0256, 0230

Beng

Coby

Dell

Emerson

Emprex

Hisense

Funai

ΗP

Initial

Insignia	0139
JVC	0251, 0101, 0194
LG	0148, 0308, 0040, 0172
Magnavox	0044, 0271
Maxent	0098
Mintek	0271
Mitsubishi	0238
NEC	0149
NET-TV	0197
Norcent	0275
Olevia	0168
Panasonic	0253, 0038, 0285, 0117, 0291
Philips	0034, 0112
Polaroid	0130, 0089, 0078, 0281, 0167
RCA	0242
Samsung	0187, 0166, 0234, 0177, 0057, 0093, 0283, 0296, 0180
Sansui	0199
Sanyo	0031, 0298
Sharp	0008, 0160, 0219, 0084, 0241, 0060, 0294, 0074
Sony	0243, 0155, 0035, 0126, 0090
Sylvania	0144, 0115, 0284
Syntax	0168
Tatung	0092
Toshiba	0042, 0222, 0064
Trutech	0206

Viewsonic	0021, 0085, 0107, 0026, 0290, 0174, 0082, 0277, 0255, 0069, 0304
Vizio	0002
Westinghous e	0021, 0063, 0054
Zenith	0146
TV - LCD T\	//PC Monitor
Sampo	0280
	//Tuner Combo
Polaroid	0130
TV - Plasma	
Acer	0229
Daewoo	0067
Fujitsu	0240
Funai	0250
Panasonic	0195
Pioneer	
	0203, 0077, 0065
Samsung	0171, 0118, 0095, 0258
Toshiba	0099
Viewsonic	0156, 0106
Zenith	0183, 0214, 0226
TV - PLASM	IA TV
Akai	0201
Elite	0213
Gateway	0269
Hewlett Packard	0123
HP	0191
ILO	0237
LG	0133, 0172
Magnavox	0047, 0025
Panasonic	0033, 0104, 0179
Pioneer	0213
Samsung	0166, 0254
Sanyo	0131
Sony	0155
SVA	0185
Viewsonic	0080
Vizio	0002
	TV Monitor
Akai	0170
Fujitsu	0252, 0049, 0260, 0186, 0257

1.12	2004 2044 2000		
Hitachi	0091, 0041, 0080, 0314		
Marantz	0224		
NEC	0224		
NET-TV	0004		
Panasonic	0039		
Pioneer	0208		
Plasmsync	0224		
Sony	0289, 0086		
Toshiba	0224, 0120		
Zenith	0011		
TV - Project	tion HDTV		
Sharp	0313, 0246		
TV - Project	tion TV		
Hitachi	0091, 0066, 0141,		
	0100, 0020, 0261, 0235		
JVC	0071, 0248		
Magnavox	0202		
Mitsubishi	0263, 0111, 0238,		
IVIIISUDISIII	0013, 0147, 0073,		
	0137		
Panasonic	0033, 0196, 0110		
Philips	0132		
Pioneer	0152		
RCA	0138, 0158		
Samsung	0007, 0300, 0218,		
	0119		
Sharp	0127		
Sony	0243, 0178, 0135,		
Taabib -	0125		
Toshiba	0307, 0159, 0081, 0006		
Zenith	0164		
TV - TV			
Admiral	0223, 0288, 0129		
Advent	0312		
Adventura	0143		
Auventura	0124		
Alwa Akai	0153, 0177, 0046,		
mai	0153, 0177, 0046,		
Alleron	0268		
America	0097		
Action			
Amtron	0182		
Λ	0007		

Anam

0097

	•
Anam	0279, 0182
National	
AOC	0239, 0308
Apex	0249, 0264
Apex Digital	0227
Audiovox	0182, 0097
Aventura	0295
Belcor	0308
Bell &	0223, 0014
Howell	
Benq	0079
Bradford	0182, 0097
Brockwood	0308
Broksonic	0097, 0288, 0032,
	0046, 0199
Candle	0143, 0308
Carver	0122
Celebrity	0153
Celera	0227
Changhong	0227
Citizen	0182, 0221, 0308,
01	0061
Clarion	0097
Colortyme	0308
Colt	0076
Concerto	0308
Contec	0097
Contec/Cony	
Craig	0182, 0097
Crosley	0122
Crown	0182, 0097
CTX	0027
Curtis	0017, 0014, 0221,
Mathes	0122, 0209, 0308,
010	0129
CXC	0182, 0097
Cytron	0051, 0220
Daewoo	0239, 0062, 0274, 0308, 0061
Doutron	0308
Daytron	
Denon	0209
Diamond Vision	0045, 0216, 0188
Dimensia	0017
Dumont	0286, 0308
	,
-	

Durabrand	0048, 0295, 0097, 0288
Dwin	0129
Electroband	0153
Electrograph	0228
Electrohome	0153, 0279, 0308
Emerson	0182, 0268, 0014,
	0295, 0097, 0288,
	0062, 0032, 0162, 0308, 0276, 0061
Envision	0308
Epson	0301
ESA	0295, 0177
Fisher	0014
Fujitsu	0268
Funai	0182, 0268, 0295,
	0097, 0169
Futuretech	0182, 0097
Gateway	0228, 0173
GE	0017, 0279, 0309,
	0138, 0308, 0245,
0.1 1	0087
Gibralter	0286, 0308
Goldstar	0239, 0308, 0030
Grunpy	0182, 0268, 0097
Haier	0048
Hallmark	0308
Harley Davidson	0169
-	0122
don	0122
Harvard	0182, 0097
Havermy	0129
Hisense	0116
Hitachi	0209, 0091, 0273,
	0308, 0169
llo	0271
IMA	0182
Infinity	0122
Insignia	0001, 0278, 0211
Janeil	0143
JBL	0122
JC Penney	0017, 0239, 0221, 0308
JCB	0153
Jensen	0308

	I
JAC	0102, 0175, 0297, 0259, 0096, 0121
Kawasho	0153, 0308
KEC	0097
Kenwood	0308
KLH	0227
Kloss Novabeam	0182, 0143
KTV	0182, 0097
LG	0239
Lloyd's	0169
Logik	0223
Luxman	0308
LXI	0017, 0014, 0122
Magnasonic	0061
Magnavox	0122, 0022, 0009, 0308, 0276, 0169
Magnin	0245
Majestic	0223
Marantz	0122, 0308
Maxent	0228
Megatron	0209
Memorex	0223, 0239, 0014, 0288, 0144, 0019, 0075, 0030
MGA	0239, 0308, 0245
Midland	0286
Mitsubishi	0239, 0263, 0308, 0129, 0087
Montgomery Ward	
Motorola	0279, 0129
MTC	0239, 0221, 0308
Multitech	0182, 0097
NEC	0279, 0239, 0308
Net-TV	0228
Norcent	0116
Onwa	0182, 0097
Optimus	0075
Optonica	0225, 0129
Orion	0288, 0001, 0032
Panasonic	0279, 0056, 0036, 0196, 0190, 0176, 0029, 0075
Penney	0245, 0030

Philco	0279, 0239, 0122, 0050, 0308
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Memorex	4093, 4225, 4012
Microsoft	4224
Mintek	4111, 4237, 4060
Mitsubishi	4207, 4155
NAD	4157
Nakamichi	4191
Nesa	4111
Norcent	4243, 4083, 4073, 4232
Onkyo	4209, 4198, 4027, 4062, 4159, 4133, 4058
Oritron	4002, 4011
Panasonic	4017, 4198, 4120, 4081, 4222, 4091, 4200, 4038, 4143, 4080, 4044, 4013

F	T
Philips	4198, 4085, 4049,
	4019, 4070, 4208,
	4247, 4078, 4009,
	4161
Pioneer	4163, 4117, 4153,
	4194, 4130, 4119
Polaroid	4230, 4016, 4069,
	4102
Polk Audio	4085
Presidian	4049, 4208
Proscan	4224, 4226
Qwestar	4002
RCA	4118, 4224, 4117,
	4111, 4007, 4226,
	4042, 4086, 4185,
	4160
Regent	4061
Rotel	4152
Rowa	4092
Sampo	4182
Samsung	4017, 4180, 4032,
	4051, 4082, 4241,
	4135, 4146
Sansui	4093, 4088, 4173,
_	4251
Sanyo	4093, 4132, 4213
Sharp	4049, 4204, 4131,
	4202, 4115
Sherwood	4177, 4203
Shinco	4008
Shinsonic	4205
Sony	4205, 4216, 4174,
	4045, 4169, 4166,
	4189, 4240, 4094,
	4211, 4154, 4048,
	4127, 4142, 4249,
	4217
Sungale	4228
Superscan	4165
Sylvania	4165, 4049, 4181,
	4208, 4187, 4112,
	4001
Symphonic	4049, 4104, 4208
Teac	4118, 4015
Technics	4017, 4222
Techwood	4137
Theta Digital	4117

4093, 4198, 4184, 4071, 4088, 4024, 4173, 4175, 4100
4059
4198
4118, 4036
4224
4017, 4085, 4106, 4101
4198, 4025, 4021

DVD - DVD Recorder

4097
4026
4190
4190
4150, 4171
4145
4126
4046, 4000, 4057, 4003, 4164, 4179, 4227, 4098
4148, 4076, 4170
4248, 4238, 4215, 4005
4190
4084, 4043, 4151, 4039
4250, 4192, 4231, 4053
4068, 4138
4219
4150, 4136, 4178
4063
4034
4190
4096, 4108, 4087, 4109
4183
4233, 4033
4020, 4236, 4114
4139
4018, 4122, 4170
OVR

4004, 4113, 4128,

4196

DVD DVD DVD/VCD Combo	
Toshiba	4125, 4110, 4134
RCA	4103
Pioneer	4055

DVD - DVD-DVR/VCR Combo JVC 4004, 4113, 4128,

	4196	
DVD - TV/DVD/Tuner Combo		
Panasonic	4143	

4069

4127

DVD - TV/DVD Combo

Polaroid

Sony

DVD - I V/DVD Collibo		
Aiwa	4077	
Akai	4088, 4129	
Apex	4124	
Audiovox	4229	
Broksonic	4088, 4173	
Coby	4089	
Cytron	4116	
Diamond Vision	4075	
Emerson	4206	
llo	4066	
Initial	4060	
JVC	4186	
LG	4223, 4029	
Magnavox	4060	
Mintek	4060	
Panasonic	4038	
Philips	4078, 4060	
RCA	4086	
Samsung	4082	
Sansui	4088, 4173, 4251	
Sylvania	4112, 4001	
Toshiba	4088, 4024, 4173	
DVD - TV/DVD/VCR Combo		

_	
Akai	4199
Diamond Vision	4014
Emerson	4165
Magnavox	4165
Memorex	4012
Panasonic	4080
Polaroid	4102
RCA	4185
Samsung	4241
	·

Sharp	4202
Superscan	4165
Sylvania	4165
Toshiba	4175

DVD - DVD/VCR Combo

DVD - DVD/VCK Collibo		
Broksonic	4093, 4026, 4173	
Daewoo	4067	
Emerson	4208, 4030	
Funai	4208	
Go Video	4072	
Goldstar	4162	
Hitachi	4171, 4028	
Insignia	4145	
JVC	4000, 4245, 4057, 4003, 4164	
LG	4148, 4076, 4170, 4105	
Magnavox	4050	
Memorex	4093	
Panasonic	4200	
Philips	4208, 4247	
Pioneer	4138	
Polaroid	4016	
Presidian	4208	
RCA	4042	
Samsung	4051	
Sansui	4093, 4063	
Sanyo	4132	
Sharp	4108, 4087, 4131	
Sony	4154, 4048	
Sylvania	4208, 4187	
Symphonic	4208	
Toshiba	4114, 4071	
Zenith	4170, 4021	
D\/D !!T!D		

DVD - HTIB

Audiovox	4041, 4022
BOSE	4235
CambridgeS oundWorks	4144
Classic	4140
Coby	4147
Denon	4047
Emerson	4079
Insignia	4121
JBL	4221

JVC

JVC	4123, 4064, 4195
Koss	4099, 4239
Onkyo	4159, 4133, 4058
Panasonic	4044, 4013, 4197
Philips	4009, 4161
Pioneer	4194, 4130, 4119
RCA	4219
Samsung	4135, 4146
Sanyo	4213
Sharp	4115
Sherwood	4203
Sony	4172, 4142, 4249, 4217, 4141
Toshiba	4100
Venturer	4036
Yamaha	4106, 4101
AUDIO - Am	plifier
Denon	2041
JBL	2090
Krell	2068
Magnavox	2013
Marantz	2098
Parasound	2034, 2103
Pioneer	2070, 2031
RCA	2010
Rotel	2011
Soundmatter s	2039
Technics	2008
Yamaha	2079, 2026
AUDIO - Aud	dio Cassette
Curtis Mathes	2070
Magnavox	2013
Marantz	2008, 2013
Optimus	2070
Pioneer	2070
Technics	2008
AUDIO - Aud	dio System
Curtis Mathes	2070
Pioneer	2070
AUDIO - LCI	TV/Tuner Combo

Magnavox	2013
Marantz	2013
Pioneer	2070
AUDIO - Rec	eiver
JBL	2020
Sanyo	2071
	eiver/Amplifier
Yamaha	2026
	eiver/Tuner
Adcom	2078
Aiwa	2085, 2037, 2093
Audiovox	2077, 2036
BOSE	2060, 2032
oundWorks	2053
Carver	2085
Classic	2009
Coby	2045
Curtis Mathes	2070
Denon	2023, 2091, 2016
Emerson	2014
Harman/Kar don	2085, 2052, 2094
Insignia	2082, 2063, 2038
JBL	2020
JVC	2097, 2073, 2029, 2006, 2000, 2024
Kenwood	2019, 2072, 2044, 2089, 2099, 2012
Linn	2085
Magnavox	2013, 2085
Marantz	2008, 2013, 2085, 2056
Mitsubishi	2080
NAD	2095
Nakamichi	2033
Onkyo	2067, 2017, 2002, 2057, 2100, 2065
Optimus	2070, 2054
Panasonic	2008, 2088, 2058, 2007, 2051, 2066
Philips	2085, 2096, 2047

D:	0070 0040 0000
Pioneer	2070, 2048, 2062, 2074, 2030, 2027,
	2074, 2030, 2027, 2022, 2049
Polk Audio	2050
Quasar	2008
RCA	2059
Rotel	2011
Samsung	2064, 2021
Sansui	2085
Sharp	2001
Sherwood	2046, 2015
Sony	2086, 2081, 2092,
Corry	2061, 2083, 2069,
	2101, 2025
Technics	2008, 2088, 2058
Toshiba	2084
Wards	2085
Yamaha	2075, 2003, 2040,
	2076
AUDIO - Tur	ner
Aiwa	2043
Audiovox	2087
Koss	2018
Panasonic	2007, 2004, 2042
Polaroid	2028, 2035
Sony	2055, 2025
Venturer	2036
AUDIO - Tur	er/CD Combo
Aiwa	2043
BOSE	2060
Panasonic	2042
AUDIO - TV/	DVD/Tuner Combo
Panasonic	2004
Polaroid	2035
Sony	2055
AUDIO - TV/	Tuner
Audiovox	2087
AUDIO - TV/	VCR/Tuner Combo
Panasonic	2007
AUDIO - HTI	В
Audiovox	2077, 2036
BOSE	2032
CambridgeS oundWorks	2053
Classic	2009
	l

Coby

2045

Denon	2016
Emerson	2014
Insignia	2038
JBL	2020
JVC	2006, 2000, 2024
Koss	2018, 2018
Onkyo	2057, 2100, 2065
Panasonic	2051, 2066, 2102
Philips	2096, 2047
Pioneer	2027, 2022, 2049
RCA	2059
Samsung	2064, 2021
Sanyo	2071
Sharp	2001
Sherwood	2015
Sony	2101, 2025, 2025, 2025, 2005

Toshiba	2084
Venturer	2036
Yamaha	2040, 2076
CD - CD	
ADC	4274
Aiwa	4272
BOSE	4269
Denon	4273
Harman	4270
Kardon	
JVC	4261, 4259
Kenwood	4263
Marantz	4275
McIntosh	4265
Nakamichi	4271
Onkyo	4257, 4278
Panasonic	4254, 4264

Philips	4262
Pioneer	4255
RCA	4256
Sanyo	4258
Sherwood	4268
Sony	4276, 4266, 4252
Teac	4277
Technics	4267
Yamaha	4260
CD - CD/CD Recorder	
Philips	4262
CD - Tuner/CD Combo	
Aiwa	4272
BOSE	4269
Panasonic	4254

Appendix B - Other Features

Showing URC 4 Firmware Version

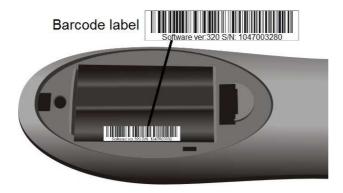
The URC 4 firmware version is in the format of x.y.z, where x, y and z is digit 0-9. Use the following procedures to show the URC 4 firmware version:

- 1. Press "STB" and hold for 5s. The "STB" backlight will illuminate.
- 2. Press "INFO" once.
- 3. The 3 digits of the firmware version (x, y and z as described above) will be displayed in the following manner.
 - a. The "STB" backlight blinks to indicate the digit. One blink indicates 1, 2 blinks indicates 2, etc until 9 blinks indicates 9. A 0 is indicates by a shot, long, short, long, short, long blink.
 - b. In between each digit, the "STB" backlight will be off for 1 second.
 - c. For example, the following blink pattern shows a firmware version of 2.0.4.

... .-.-.-

NOTE: In the programming mode if no key is received within 30s, the device mode key backlight will blink rapidly for 7 times to indicate an error and then extinguish, and the programming mode will end.

In addition, the URC 4 Firmware version will also be shown on the sticker inside the battery compartment at the back of the remote control.



Showing Programmed Device Code

You can display the 4-digit device code by the following procedures:

- 1. Press and hold "TV" or "AUX" for 5 seconds. The "TV" or "AUX" backlight will illuminate.
- 2. Press "INFO" once.
- 3. The 4-digits device code will be displayed in the following manner.
 - a. The "TV"/"AUX" backlight blinks to indicate the digit. One blink indicates 1, 2 blinks indicates 2, etc until 9 blinks indicates 9. A 0 is indicates by a shot, long, short, long, short, long blink.
 - b. In between each digit, the "TV"/"AUX" backlight will be off for 1 second.
 - c. For example, the following blink pattern shows a device code of 0123.

.-.-.-

NOTE: In the programming mode if no key is received within 30s, the device mode key backlight will blink rapidly for 7 times to indicate an error and then extinguish, and the programming mode will end.